Species Tag:	37002	Species Name:	C3H
Version:	1		2-Propynylidyne
Date:	Apr. 1995		ground $^2\Pi$ state
Contributor:	H. M. Pickett		and $\nu_4 = 1$ $^2\Sigma^\mu$ state
	M. L. Delitsky		
Lines Listed:	4990	Q(300.0)=	6283.6523
Freq. (GHz) <	3438.1	Q(225.0)=	4622.2113
Max. J:	60	Q(150.0)=	2960.9861
LOGSTR0=	-10.	Q(75.00)=	1323.4710
LOGSTR1=	-100	Q(37.50)=	546.9895
Isotope Corr.:		Q(18.75)=	210.2441
Egy. (cm^{-1}) >	0.0,20.3	Q(9.375)=	84.0073
μ_a =	3.10	A=	
μ_b =		B=	11189.059
μ_c =		C=	

The observed lines and dipole moment are from: S. Yamamoto, S. Saito and M. Ohishi, 1990, Astrophys. J. **348**,363. C. A. Gottlieb, E. W. Gottlieb, P. Thaddeus and J. M. Vrtilek, 1986, Astrophys. J. **303**, 446.

The $\nu_4 = 1$ state is only 610 GHz above the ground state and is strongly coupled with the ground state. The form of the interaction is given in J. T. Hougen, 1962, J. Chem. Phys. **36**, 519. The dipole moment for the $\nu_4 = 1$ state is assumed to be the same as the ground state. There is a 0.5 Debye b symmetry moment between the ground state and $\nu_4 = 1$.